

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 05105405  
 PUBLICATION DATE : 27-04-93

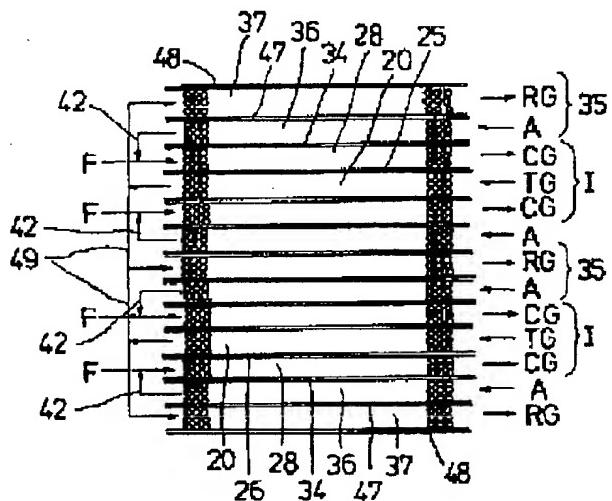
APPLICATION DATE : 21-10-91  
 APPLICATION NUMBER : 03299598

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INT.CL. : C01B 3/32 B01J 8/02 B01J 8/04 //  
 C10L 3/06

TITLE : PLATE TYPE REFORMER



ABSTRACT : PURPOSE: To make the subject reformer compact by integrally incorporating a plate type heat exchange and to improve reforming rate.

CONSTITUTION: The combustion chambers 28 packed with a combustion catalyst are laminated on the both sides of the reforming chamber 20 packed with a reforming catalyst to make a unit 1. The outlet side of the reforming chamber 20 is used as the inlet side of the combustion chamber 28. The heat exchange chamber 36 in which the air A flows and the heat exchange chamber 37 in which the reformed gas flows are laminated to form the plate type heat exchanger 35. The unit 1 is laminated through the plate type heat exchanger 35. The high temp. reformed gas RG reformed in the reforming chamber 20 is passed through the heat exchange chamber 37 to preheat the air A which flows in the heat exchange chamber 36. The preheated air A is introduced to the inlet of the combustion chamber 28 to keep temp. of the reformed gas of the outlet side of the reforming chamber 20 at high temp.

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